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In re Application of:

Astrid VRANG et al.

Application Number: 09/982,531

Filed: October 19, 2001

For: FERMENTATION METHOD FOR PRODUCTION OF HETEROLOGOUS GENE
PRODUCTS IN LACTIC ACID BACTERIA

Group Art Unit: 1636

Examiner: To Be Assigned

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully request consideration of the documents listed on the attached Form PTO-1449. Since copies (except the one reference, discussed below) of the cited references were previously provided in prior U.S. Patent Application Serial No. 09/692,205, copies of the references are not being submitted herewith (see 37 C.F.R. § 1.98 (d) (1)). However, copies will be forwarded at the request of the Examiner. The one reference which was not cited in the prior application is item 3 on Form PTO-1449. A copy of the reference is enclosed.

Applicants respectfully request that the Examiner consider the references cited on the PTO-1449 and that the Examiner indicate that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per MPEP 609.

Applicants respectfully point out that the submission of the enclosed references in this IDS is not an admission that they are prior art or that they are material to



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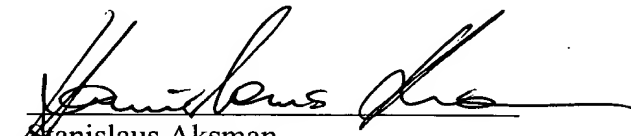
patentability of any claims of the application. Also, the submission of the IDS is not an indication that a search has been made.

If any fees are necessitated by the filing of this Information Disclosure Statement, please charge the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS

Date: January 29, 2002 By:


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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: 54320.000011		SERIAL NO.: 09/982,531		JAN 31 2002	
LIST OF MATERIALS CITED BY APPLICANT (Use several sheets if necessary) Sheet 1 of 2				INVENTOR'S NAME: Astrid VRANG et al.		EXAMINER: To Be Assigned			
				FILING DATE: October 19, 2001		GROUP ART UNIT: 1636			
U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL		DOCUMENT NUMBER		DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
								YES	NO
		1. WO 98/10079		03/12/98	WO				
		2. WO 94/16086		7/21/94	WO				
OTHER MATERIALS (Including Author, Title, Date, Pertinent Pages, Etc.)									
	3.	"A Method for the Regulation of Microbial Population Density During Continuous Culture at High Growth Rates", Arch. Microbiol., 107:-41-47 (1976), Martin, Glenn A., et al.							
	4.	"Antitermination of Characterized Transcriptional Terminators by the <i>Escherichia coli</i> <i>rrnG</i> Leader Region", Bjarne Albrechtsen et al., <i>J. Mol. Biol.</i> (1990) 213, 123-134							
	5.	"Nuclease B, A Possible Precursor of Nuclease A, An Extracellular Nuclease Of <i>Staphylococcus Aureus</i> ", Austine Davis et al., <i>The Journal of Biological Chemistry</i> , Vol. 252, No. 18, September 25, 1977, pp. 6544-6553							
	6.	"Insertion of Transposon Tn917 derivatives into the <i>Lactococcus lactis</i> subsp. <i>lactis</i> Chromosome", Hans Israelsen et al., <i>Applied And Environmental Microbiology</i> , Vol. 59, No. 1, Jan. 1993, p. 21-26							
	7.	"Inducible Gene Expression Systems in <i>Lactococcus lactis</i> ", Djordjevic et al, <i>Molecular Biotechnology</i> , 1998, Vol. 9, p. 127-139							
	8.	"Controlled Gene Expression Systems for <i>Lactococcus lactis</i> with the food-Grade Inducer Nisin", Pascale G. G. A. De Ruyter et al., <i>Applied And Environmental Microbiology</i> , Vol. 62, No. 10, Oct. 1996, p. 3662-3667							
	9.	"Plasmid Complements of <i>Streptococcus lactis</i> NCDO 712 and Other Lactic Streptococci After Protoplast-Induced Curing", Michael J. Gasson, <i>Journal of Bacteriology</i> , April 1983, Vol. 154, No. 1, p. 1-9							
	10.	"Differential plasmid rescue from transgenic mouse DNAs into <i>Escherichia coli</i> methylation-restriction mutants", Grant et al., <i>Proc. Natl. Acad. Sci.</i> , June 1990, Vol. 87, p. 4645-4649							
	11.	"Minimal Requirements for Exponential Growth of <i>Lactococcus lactis</i> ", Peter Ruhdal Jensen et al., <i>Applied and Environmental Microbiology</i> , Vol. 59, No. 12, Dec. 1993, p. 4363-4366							
	12.	"Bioenergetics of lactic acid bacteria: cytoplasmic pH and osmotolerance", Eva R. Kashket, <i>FEMS Microbiology Reviews</i> 46 (1987) 233-244							
	13.	"High-Frequency Transformation, by Electroporation, of <i>Lactococcus lactis</i> subsp. <i>cremoris</i> Grown with Glycine in Osmotically Stabilized Media", Holo et al., <i>Applied and Environmental Microbiology</i> , Dec. 1989, Vol. 55, No. 12, p. 3119-3123							
	14.	"Controlled overproduction of proteins by lactic acid bacteria", Oscar P. Kuipers et al., <i>TIB TECH</i> , Vol. 15, April 1997							
	15.	"Heterologous protein secretion in <i>Lactococcus lactis</i> : a novel antigen delivery system", P. Langella et al., <i>Brazilian Journal of Medical and Biological Research</i> (1999) 32:191-198							
	16.	"Direct Screening of Recombinants in Gram-Positive Bacteria Using the Secreted Staphylococcal Nuclease as a Reporter", Y. Le Loir et al., <i>Journal of Bacteriology</i> , August 1994, Vol. 176, No. 16, p. 5135-5139							
	17.	"A Nine-Residue Synthetic Propeptide Enhances Secretion Efficiency of Heterologous Proteins in <i>Lactococcus lactis</i> ", Y. Le Loire et al., <i>Journal of Bacteriology</i> , April 1998, Vol. 180, No. 7, p. 1895-1903							
	18.	"Influence of end-products inhibition and nutrient limitations on the growth of <i>Lactococcus lactis</i> subsp. <i>lactis</i> ", <i>Journal of Applied Microbiology</i> , 1997, 82-95-100							
	19.	"Design of thermolabile bacteriophage repressor mutants by comparative molecular modeling", Arjen Nauta et al., <i>Nature Biotechnology</i> , October 1997, Vol. 15							
	20.	"High- and low-copy-number <i>Lactococcus</i> shuttle cloning vectors with features for clone screening", Daniel J. O'Sullivan et al., <i>GENE</i> 07541, 1993, 227-231							
EXAMINER				DATE CONSIDERED					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

